Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION TRANSMITTAL

2269-5868US (01-0764.00/US) Attorney Docket No. William M. Hiatt First Inventor THROUGH-HOLE CONDUCTORS FOR SEMICONDUCTOR Title SUBSTRATES AND METHOD AND SYSTEM FOR MAKING SAME

EV 348042904 US (Only for new nonprovisional applications under 37 C.F.R. 1.53(b)) Express Mail Label No. Mail Stop Patent Application APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 Fee Transmittal Form (e.g., PTO/SB/17) 7. CD-ROM or CD-R in duplicate, large table or 1. (Submit an original and a duplicate for fee processing) Computer Program (Appendix) 2. Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) з. 🔯 a. Computer Readable Form (CRF) Specification (Total Pages (preferred arrangement set forth below) b. Specification Sequence Listing on: - Descriptive title of the Invention CD-ROM or CD-R (2 copies); or - Cross Reference to Related Applications ii. 🗌 paper - Statement Regarding Fed sponsored R & D c. Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** - Background of the Invention - Brief Summary of the Invention 9. 🛛 Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) 10. 🛛 37 C.F.R.§3.73(b) Statement Power of - Detailed Description (when there is an assignee) Attorney Claim(s) - Abstract of the Disclosure 11. 🔲 English Translation Document (if applicable) [Total Sheets 6 4. 🛛 12. 🛛 Information Disclosure Copies of IDS Drawing(s) (35 U.S.C.113) Statement (IDS)/PTO-1449 Citations 5. Oath or Declaration [Total Pages | 3 13. 🔲 **Preliminary Amendment** a. Newly executed (original or copy) 14. 🔯 Return Receipt Postcard (MPEP 503) b. Copy from a prior application (37 CFR 1.63 (d)) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. 🔲 Certified Copy of Priority Document(s) i. DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inventor(s) 16. 🔲 Nonpublication Request under 35 U.S.C. 122 named in the prior application, see 37 CFR (b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b). or its equivalent. 6. Application Data Sheet. See 37 CFR 1.76 17. 🔲 Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: ☐ Continuation □ Divisional ☐ Continuation-in-part (CIP) of prior application No: __ Group / Art Unit: Prior application information: Examiner For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS 24247 or

Correspondence address below □ Customer Number Name Address City Zip Code State Telephone Fax Country Name (Print/Type) 38,506 Kevin K. Johanson Registration No. (Attorney/Agent) Signature February 23, 2004

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Date



FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$)	810
ΨJ	010

Application Number	To be assigned		
Filing Date	February 20, 2004		
First Named Inventor	William M. Hiatt		
Examiner Name	To be assigned		
Art Unit	To be assigned		
Attorney Docket No.	2269-5868US (01-0764.00/US)		

METHOD OF PAYMENT (check all that apply)			FEE CALCULATION (continued)								
			3. ADDITIONAL FEES								
☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order			Large	Entity	Small E	Entity					
Deposit Account:											
Deposit						Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account	20-14	69		1	1	1051	130	2051	65	Surcharge - late filing fee or oath	
Number	<u> </u>					1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit					1	1053	130	1053	130	Non-English specification	
Account TraskBritt Name		1812	2,520	1812	2,520	For filing a request for reexamination					
The Director is authorized to: (check all that apply)					1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
☐ Charge fee(s) indicated below ☐ Credit any overpayments ☐ Charge any additional fee(s) during the pendency of this application						1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.				l	1251	110	2251	55	Extension for reply within first month		
to the above-identified deposit account. FEE CALCULATION				1252	420	2252	210	Extension for reply within second month			
1. BASIC	FILING	FEE				1253	950	2253	475	Extension for reply within third month	
Large Entity Fee Fee	Small E		ee Description			1254	1,480	2254	740	Extension for reply within fourth month	
Code (\$)	Code	(\$)	ee Description	Fee Paid		1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770	2001	385 L	tility filing fee	770	1 I	1401	330	2401	165	Notice of Appeal	
1002 340	2002	170 D	esign filing fee] [1402	330	2402	165	Filing a brief in support of an appeal	L
1003 530	2003	265 P	lant filing fee			1403	290	2403	145	Request for oral hearing	
1004 770 1005 160	2004 2005		leissue filing fee rovisional filling fee		-	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
	1		rottororier mining too	<u> </u>	'	1452	110	2452	55	Petition to revive – unavoidable	
SUBTOTAL (1) (\$) 770]	1453	1,330	2453	665	Petition to revive – unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE					1501	1,330	2501	665	Utility issue fee (or reissue)		
Z. EXIKA C	LAIM FEI		Extra Fee from		ı	1502	480	2502	240	Design issue fee	
			Claims below	Paid		1503	640	2503	320	Plant issue fee	<u> </u>
Total Claims	20 -20	** = [0 X 18	= 0]	1460	130	1460	130	Petitions to the Commissioner	\vdash
Independent	3 -3	·· _ [0 X 86	= 0	1	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	\vdash
Claims Multiple	3 .	-L				1806	180	1806	180	Submission of Information Disclosure Stmt	
Dependent Large Entity	ı Sma	all Entity	x [= 0	┚┃	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
Fee Fee Code (\$)		Fee	Fee Description			1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1202 18	2202	9	Claims in excess	of 20		1810	770	2810	385	For each additional invention to be	
1201 86	2201	43	Independent clair	ns in excess of 3						examined (37 CFR § 1.129(b))	
1203 290	2203	145	Multiple depende	•		1801	770	2801	385	Request for Continued Examination (RCE)	
1204 86	2204	43	** Reissue indepe original patent			1802	900	1802	900	Request for expedited examination of a design application	
1205 18	2205	9	** Reissue claims over original pate	in excess of 20 a nt	nd	Other f	o (onos!	5.A		abbusena.	
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**or number p	reviously pai	d, if greater	; For Reissues, see at	ove		Keuut	en by Da	aare mini	y ree r	300101AL(3) (3)40	

SUBMITTED BY Complete (if applicable)								
Name (Print/Type)	Kevin K, Johanson	Registration No. (Attorney/Agent)	38,506	Telephone	801-532-1922			
Signature	772	Date	February 23, 2004					

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